# Foray® 48B

# 1. CHEMICAL PRODUCT AND COMPANY IDENTI-

MATERIAL NAME: Foray® 48B - Not For Use in

Canada

EPA Registration No. 73049-46

List Number: 60175 \* 60178 \* 60179 \* 60180 MANUFACTURER: Valent BioSciences Corporation

870 Technology Way, Suite 100 Libertyville, Illinois 60048

EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 1-651-632-6184 Within the United States: 1-877-315-9819

#### COMPOSITION/INFORMATION ON INGREDI-**ENTS**

INGREDIENT NAME: Bacillus thuringiensis, var.

kurstaki

**CAS/RTECS NUMBERS:** 68038-71-1, N/A

**OSHA-PEL** 8HR TWA: N/L STEL: N/L CEILING: N/L **ACGIH-TLV** 

8HR TWA: N/L STEL: N/L

CEILING: N/L **OTHER LIMITS** 8HR TWA: N/A

STEL: N/A CEILING: N/A

INGREDIENT NAME: Inert ingredients - identity with-

held as a Trade Secret CAS/RTECS NUMBERS: N/A, N/A

**OSHA-PEL** 8HR TWA: N/L

STEL: N/L CEILING: N/L **ACGIH-TLV** 

8HR TWA: N/L STEL: N/L

CEILING: N/L OTHER LIMITS 8HR TWA: N/A

STEL: N/A CEILING: N/A

EEC (European Community): N/D

Symbol Designation: N/A Risk Phrases: N/A

Safety Phrases: S2 Keep out of reach of children. S3 Keep in a cool place. S13 Keep away from food, drink and animal feeding stuffs.

# 3. HAZARDS INFORMATION

**EMERGENCY OVERVIEW:** This material may cause

transient skin and eye irritation. ROUTE(S) OF ENTRY:

Skin: No Inhalation: No

Ingestion: No

**INGESTION RATING: None** SKIN ABSORPTION RATING: None INHALATION RATING: N/D **CORROSIVENESS RATING: None** SKIN CONTACT RATING: None SKIN SENSITIZATION RATING: N/D EYE CONTACT RATING: None

TARGET ORGANS: Possibly skin, eyes and respira-

tory tract

**CARCINOGENICITY RATING:** 

NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L None

SIGNS AND SYMPTOMS: N/D. May cause skin, eye, and respiratory irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPO-

SURE: N/D

#### 4. FIRST AID MEASURES

EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

#### 5. FIRE FIGHTING PROCEDURES

FLASH POINT: N/D FLASH POINT METHOD: N/D LOWER EXPLOSIVE LIMIT(%): N/D UPPER EXPLOSIVE LIMIT(%): N/D **AUTOIGNITION TEMPERATURE: N/D** FIRE & EXPLOSION HAZARDS: N/D

EXTINGUISHING MEDIA: Use appropriate medium

for the underlying cause of the fire.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Recover product and place in an appropriate container for disposal. Ventilate and wash the spill area.

# 7. HANDLING AND STORAGE

HANDLING: Avoid dust generation and provide room ventilation during handling.

STORAGE: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 32 C (90 F).

SPECIAL PRECAUTIONS: Wash thoroughly with soap and water after handling.

# 8. EXPOSURE CONTROLS/PERSONAL PROTEC-

**ENGINEERING CONTROLS:** Use local exhaust RESPIRATORY PROTECTION: Air purifying respirator with dust/mist filter (N95), if necessary.

SKIN PROTECTION: Impervious. EYE PROTECTION: Goggles.

OTHER PROTECTION: Wear tyvek coveralls if contact may occur

# 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Light brown sus-

**ODOR:** Pungent, bacterial **BOILING POINT: N/D** 

MELTING/FREEZING POINT: N/D VAPOR PRESSURE (mm Hg): N/D VAPOR DENSITY (Air=1): N/D EVAPORATION RATE: N/D BULK DENSITY: 1.12-1.2 g/cm3 SPECIFIC GRAVITY: N/D

SOLUBILITY: Readily mixable with water pH: 4.1-4.8 as a 10% solution in water

VISCOSITY: N/D

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Not chemically reactive. INCOMPATIBILITIES: Alkalinity inactivates product. HAZARDOUS DECOMPOSITION PRODUCTS: Not known to occur

HAZARDOUS POLYMERIZATION: Not known to oc-

### 11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY: N/D. LD50 > 5000 mg/kg in rats for a similar formulation. EPA Category IV.

**DERMAL TOXICITY:** N/D. LD50 > 2500 mg/kg in rabbits for a similar formulation. EPA Category III.

INHALATION TOXICITY: N/D. A similar formulation was not lethal in an inhalation study at the maximum achievable concentration of 6.81 mg/L. EPA Category

CORROSIVENESS: N/D. A similar formulation was not

DERMAL IRRITATION: N/D. A similar formulation had slight skin reactions up to 24 hrs after treatment. EPA

OCULAR IRRITATION: N/D. A similar formulation was mildly irritating, which was reversible within 7 days. EPA Category III.

**DERMAL SENSITIZATION: N/D** 

SPECIAL TARGET ORGAN EFFECTS: N/D **CARCINOGENICITY INFORMATION: N/D** 

#### 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Studies on nontargets have been performed without identifying any organisms at risk. The following species have been included in the included in the testing. Mammals (rats, rabbits), Freshwater aquatic invertebrate (Daphnia Magna, Rainbow Trout), Birds (Mallard Duck, Bobwhite), Non-target insects (Green Lacewing Larvae, Hymenopteran Pedibus Foveolatus, Ladybird Beetles, Honey Bee).

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of product in accordance with federal, state and local regulations.

#### 14. TRANSPORTATION INFORMATION

#### DOT

STATUS: Not Regulated PROPER SHIPPING NAME: N/D HAZARD CLASS: N/D UN NUMBER: N/D PACKING GROUP: N/D REPORTABLE QUANTITY: N/D

IATA/ICA0

STATUS: Not Regulated PROPER SHIPPING NAME: N/D HAZARD CLASS: N/D UN NUMBER: N/D

PACKING GROUP: N/D REPORTABLE QUANTITY: N/D IMO

STATUS: Not Regulated PROPER SHIPPING NAME: N/D HAZARD CLASS: N/D UN NUMBER: N/D PACKING GROUP: N/D REPORTABLE QUANTITY: N/D FLASH POINT: N/D

### 15. REGULATORY INFORMATION

TSCA STATUS: Exempt CERCLA STATUS: N/D SARA STATUS: N/D RCRA STATUS: N/D PROP 65 (CA): N/D

# 16. OTHER INFORMATION

# LEGEND:

N/A = Not Applicable N/D = Not Determined N/L = Not Listed L = Listed

C = Ceiling S = Short-term

(R) = Registered Trademark of Valent BioSciences

(TM) = Registered Trademark of Valent BioSciences The information and recommendations contained herein are based upon tests believed to be reliable. However, Valent BioSciences does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the mer-chantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform with actual conditions of usage may be required. Valent BioSciences assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.

© Valent BioSciences Corporation June 2001